

## CCSP<sup>Q&As</sup>

Cloud Security

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## QUESTION 1

Which of the following is the sole responsibility of the cloud customer, regardless of which cloud model is used?

- A. Infrastructure
- B. Platform
- C. Application
- D. Data

Correct Answer: D

Regardless of which cloud-hosting model is used, the cloud customer always has sole responsibility for the data and its security.

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## QUESTION 2

Although much of the attention given to data security is focused on keeping data private and only accessible by authorized individuals, of equal importance is the trustworthiness of the data.

Which concept encapsulates this?

- A. Validity
- B. Integrity
- C. Accessibility
- D. Confidentiality

Correct Answer: B

Integrity refers to the trustworthiness of data and whether its format and values are true and have not been corrupted or otherwise altered through unauthorized means. Confidentiality refers to keeping data from being access or viewed by unauthorized parties. Accessibility means that data is available and ready when needed by a user or service. Validity can mean a variety of things that are somewhat similar to integrity, but it's not the most appropriate answer in this case.

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## QUESTION 3

Which of the following is NOT a key area for performance monitoring as far as an SLA is concerned?

- A. CPU
- B. Users
- C. Memory
- D. Network

Correct Answer: B

An SLA requires performance monitoring of CPU, memory, storage, and networking. The number of users active on a system would not be part of an SLA specifically, other than in regard to the impact on the other four variables.

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#### QUESTION 4

Which of the following storage types is most closely associated with a database-type storage implementation?

- A. Object
- B. Unstructured
- C. Volume
- D. Structured

Correct Answer: D

Structured storage involves organized and categorized data, which most closely resembles and operates like a database system would.

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#### QUESTION 5

Every security program and process should have which of the following?

- A. Severe penalties
- B. Multifactor authentication
- C. Foundational policy
- D. Homomorphic encryption

Correct Answer: C

Policy drives all programs and functions in the organization; the organization should not conduct any operations that don't have a policy governing them. Penalties may or may not be an element of policy, and severity depends on the topic.

Multifactor authentication and homomorphic encryption are red herrings here.

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#### QUESTION 6

Which of the following could be used as a second component of multifactor authentication if a user has an RSA token?

- A. Access card
- B. USB thumb drive

C. Retina scan

D. RFID

Correct Answer: C

A retina scan could be used in conjunction with an RSA token because it is a biometric factor, and thus a different type of factor. An access card, RFID, and USB thumb drive are all items in possession of a user, the same as an RSA token, and as such would not be appropriate.

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## QUESTION 7

Which of the following is a widely used tool for code development, branching, and collaboration?

A. GitHub

B. Maestro

C. Orchestrator

D. Conductor

Correct Answer: A

GitHub is an open source tool that developers leverage for code collaboration, branching, and versioning.

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## QUESTION 8

Which crucial aspect of cloud computing can be most threatened by insecure APIs?

A. Automation

B. Resource pooling

C. Elasticity

D. Redundancy

Correct Answer: A

Cloud environments depend heavily on API calls for management and automation. Any vulnerability with the APIs can cause significant risk and exposure to all tenants of the cloud environment. Resource pooling and elasticity could both be impacted by insecure APIs, as both require automation and orchestration to operate properly, but automation is the better answer here. Redundancy would not be directly impacted by insecure APIs.

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## QUESTION 9

Your boss has tasked your team with getting your legacy systems and applications connected with new cloud-based services that management has decided are crucial to customer service and offerings.

Which role would you be assuming under this directive?

- A. Cloud service administrator
- B. Cloud service user
- C. Cloud service integrator
- D. Cloud service business manager

Correct Answer: C

The cloud service integrator role is responsible for connecting and integrating existing services and applications with cloud-based services. A cloud service administrator is responsible for testing, monitoring, and securing cloud services, as well as providing usage reporting and dealing with service problems. The cloud service user is someone who consumes cloud services. The cloud service business manager is responsible for overseeing the billing, auditing, and purchasing of cloud services.

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## QUESTION 10

What concept does the "T" represent in the STRIDE threat model?

- A. TLS
- B. Testing
- C. Tampering with data
- D. Transport

Correct Answer: C

Any application that sends data to the user will face the potential that the user could manipulate or alter the data, whether it resides in cookies, GET or POST commands, or headers, or manipulates client-side validations. If the user receives data from the application, it is crucial that the application validate and verify any data that is received back from the user.

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## QUESTION 11

Each of the following are dependencies that must be considered when reviewing the BIA after cloud migration except:

- A. The cloud provider's utilities
- B. The cloud provider's suppliers
- C. The cloud provider's resellers
- D. The cloud provider's vendors

Correct Answer: C

The cloud provider's resellers are a marketing and sales mechanism, not an operational dependency that could affect the security of a cloud customer.

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**QUESTION 12**

Which of the following statements about Type 1 hypervisors is true?

- A. The hardware vendor and software vendor are different.
- B. The hardware vendor and software vendor are the same
- C. The hardware vendor provides an open platform for software vendors.
- D. The hardware vendor and software vendor should always be different for the sake of security.

Correct Answer: B

With a Type 1 hypervisor, the management software and hardware are tightly tied together and provided by the same vendor on a closed platform. This allows for optimal security, performance, and support. The other answers are all incorrect descriptions of a Type 1 hypervisor.

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**QUESTION 13**

Which of the cloud deployment models requires the cloud customer to be part of a specific group or organization in order to host cloud services within it?

- A. Community
- B. Hybrid
- C. Private
- D. Public

Correct Answer: A

A community cloud model is where customers that share a certain common bond or group membership come together to offer cloud services to their members, focused on common goals and interests.

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**QUESTION 14**

Countermeasures for protecting cloud operations against external attackers include all of the following except:

- A. Continual monitoring for anomalous activity.
- B. Detailed and extensive background checks.
- C. Regular and detailed configuration/change management activities
- D. Hardened devices and systems, including servers, hosts, hypervisors, and virtual machines.

Correct Answer: B

Background checks are controls for attenuating potential threats from internal actors; external threats aren't likely to

submit to background checks.

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## QUESTION 15

Which type of audit report is considered a "restricted use" report for its intended audience?

- A. SAS-70
- B. SSAE-16
- C. SOC Type 1
- D. SOC Type 2

Correct Answer: C

SOC Type 1 reports are considered "restricted use" reports. They are intended for management and stakeholders of an organization, clients of the service organization, and auditors of the organization. They are not intended for release beyond those audiences.

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